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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|----------------|-------------------------|---------------------|------------------|
| 09/349,571 | 07/08/1999 | MOOI CHOO CHUAH | M-35-CCHUAH | 6785 |
| 30541 7 | 590 04/29/2005 | | EXAM | INER |
| LAW OFFICE OF JOHN LIGON 505 HIGHLAND AVENUE | | | TON, DANG T | |
| P.O. BOX 43485 | | | ART UNIT | PAPER NUMBER |
| UPPER MONTCLAIR, NJ 07043 | | | 2666 | |
| | | DATE MAILED: 04/29/2005 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | | |
|---|---|--|--|--|--|--|
| | 09/349,571 | CHUAH, MOOI CHOO | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | DANG T TON | 2666 | | | | |
| The MAILING DATE of this communication Period for Reply | n appears on the cover sheet w | ith the correspondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 Clafter SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory properties of the period for reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status | ON. FR 1.136(a). In no event, however, may a n. a reply within the statutory minimum of thi eriod will apply and will expire SIX (6) MO statute, cause the application to become A | reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133). | | | | |
| 1)⊠ Responsive to communication(s) filed on | 18 November 2004. | | | | | |
| | · | | | | | |
| | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposition of Claims | | | | | | |
| 4) ☐ Claim(s) 1-13 is/are pending in the application Papers 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and pers 9) ☐ The specification is objected to by the Exaurum 10) ☐ The drawing(s) filed on is/are: a) ☐ | ndrawn from consideration. nd/or election requirement. miner. | by the Examiner. | | | | |
| Applicant may not request that any objection to | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | |
| Replacement drawing sheet(s) including the control of the control | · · · · · · · · · · · · · · · · · · · | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a | ments have been received. ments have been received in a priority documents have been ureau (PCT Rule 17.2(a)). | Application No n received in this National Stage | | | | |
| Attachment(s) | | | | | | |
| Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date | 8) Paper No | Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) | | | | |

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art of figure 1 in view of Pejihan et al. (Error Control Using Retransmission Schemes in Multicast Transport Protocols For Real Time Media, 1996 IEEE).

For claims 1-3,6,7,and 8, the admitted prior art of figure 1 discloses a method comprising the steps of :
sending packets directed to an L2TP peer (see packet # 1-5
directed to LT2P receiver in figure 1);
initiating a recovery process upon detection of multiple
messages from the L2TP peer indicative that the L2TP peer is
still waiting for a prior transmitted packet(see page 5 lines 57 and 10-20);
wherein the multiple messages are negative acknowledgements(see
multiple message Nr = #2 in figure 1);
wherein the initiating step includes the step of sending a

packet that includes a "Reset Sr" (R-bit) indicator for

resetting a next received sequence number, Nr, value at the L2TP

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peer(see page 5 lines 14 and 25-26);

receiving a packet from an L2TP peer, the received packet including a next received sequence number, Nr; value; determining if the Nr value represents a negative acknowledgement(see Nr # 2 in figure 1 and page 5 lines 13-15);

wherein the recovery process includes the step of sending a packet that includes a "Reset Sr" (*R-bit*) indicator for resetting a next received sequence number, Nr, value at the L2TP peer (see page 5 lines 14 and 25-26);

sending packets directed to an L2TP peer(see page 5 lines 14 and 25-26);

initiating a recovery process upon detection of either multiple messages from the L2TP peer indicative that the L2TP peer is still waiting for a prior transmitted packet, or if a predetermined payload time-out occurs with respect to the prior transmitted packet(see page 5 lines 5-7 and 10-20);

wherein the multiple messages are negative acknowledgements(see Nr # 2 in figure 1); and

wherein the initiating step includes the step of sending a packet that includes a "Reset *Sr"* (*R-bit*) indicator for resetting a next received sequence number, *Nr*, value at the L2TP peer(see page 5 lines 14 and 25-26).

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For claims 1-3 and 6-8, The admitted prior art of figure 1 discloses all the subject matter of the claimed invention with the exception of a predetermined number of negative acknowledgement a communications network. Pejhan from the same or similar fields of endeavor teaches the threshold being based on the number of hosts sending NACK's for a given packet (see section III Overview of Literature, paragraph 2). Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the predetermined number of negative acknowledgement as taught by Pejhan in the communications network of the admitted prior art of figure 1.

The predetermined number of negative acknowledgement can be modified/ implemented into the network of the admitted prior art of figure 1 since it does teach NACK's. The motivation for using the predetermined number of negative acknowledgement being that it provides the system more reliable since it defines a retransmission scheme for control message lost during transmission.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-5 and 9-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over (The admitted prior art figure 1 and Pejhan)in view of Miller et al. (5,727,002).

For claims 4-5 and 9-13, The admitted prior art of figure 1 discloses the method as described in the paragraph 1 of this office action.

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For claims 4-5 and 9-13, The admitted prior art of figure 1 discloses all the subject matter of the claimed invention with the exception of a predetermined number of negative acknowledgement a communications network. Pejhan from the same or similar fields of endeavor teaches the threshold being based on the number of hosts sending NACK's for a given packet (see section III Overview of Literature, paragraph 2). Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the predetermined number of negative acknowledgement as taught by Pejhan in the communications network of the admitted prior art of figure 1.

The predetermined number of negative acknowledgement can be modified/ implemented into the network of the admitted prior art of figure 1 since it does teach NACK's. The motivation for using the predetermined number of negative acknowledgement being that it provides the system more reliable since it defines a retransmission scheme for control message lost during transmission.

For claims 9-13, The admitted prior art of figure 1 discloses all the subject matter of the claimed invention with the exception of using a communication interface for sending packets and receiving packets and a processor for initiating a recovery process in a communications network. Miller et al. from the same or similar fields of endeavor teaches the network interface (box 56 in figure 5) coupled with the processor (box 50 in figure 5) to accomplish the acknowledgment mechanism. Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the

interface and processor as taught by Miller et al. in the communications network of the admitted prior art of figure 1.

The communication interface and processor as taught by Miller et al can be modified/ implemented into the network of the admitted prior art of figure 1 by connecting the interface and the processor between the sender and receiver. The motivation for using the interface and processor being that it provides the system more reliable since it defines a retransmission scheme for control message lost during transmission.

- 3. Applicant's arguments with respect to claims 1-13 have been considered but are most in view of the new ground(s) of rejection.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANG T TON whose telephone number is 703-305-4739. The examiner can normally be reached on MON-WED, 5:30 AM-6:00 PM and Thur 5:30-9:30 A.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RAO SEEMA can be reached on 703-308-5463. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

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D. Ton